

AMS Center Increases Technology Verification Support to U.S. EPA

The Advanced Monitoring Systems (AMS) Center will be providing increased support to the U.S. EPA's Environmental Technology Verification (ETV) program. Battelle, which has managed the AMS Center in partnership with EPA since 1997, has been selected to continue managing the AMS Center through 2007.

The AMS Center will continue to verify the performance of monitoring technologies for natural species and pollutants in air, water, and soil, and will also begin to verify monitoring technologies that can help protect U.S. water resources.

EPA, the lead federal agency for water security, is increasing its efforts to promote the security of water resources. As a first verification effort in this area, the AMS Center has scheduled a verification test for monitoring technologies that can detect

cyanide in drinking water. Five vendors have submitted six test kits and sensors for this test, which is expected to begin in January (please see the October/November issue of *The Monitor*).

EPA also has the responsibility to help protect the public in workplaces and other buildings that may be subject to chemical or biological attack.

This responsibility includes detecting chemicals and biological contaminants in indoor environments, and identifying methods and equipment for decontaminating buildings and indoor surfaces.

To address this responsibility, these two additional tasks have been assigned to the AMS Center:

- ◆ Manage the ETV Safe Buildings Decontamination Center, which will verify the performance of



The EPA's Homeland Security Strategic Plan is available at: http://www.epa.gov/epahome/downloads/epa_homeland_security_strategic_plan.pdf

decontamination technologies for indoor surfaces contaminated with chemical and biological agents.

- ◆ Verify the performance of detection and monitoring technologies that measure contamination from chemical/biological agents in indoor environments—the first task for the ETV Safe Buildings Detection Center.

These tasks were assigned to the AMS Center by the EPA Office of Research and Development's new National Homeland Security Research Center (NHSRC) based in Cincinnati. The NHSRC manages, coordinates, and supports a wide variety of homeland security research and technical assistance efforts.

Research at the NHSRC will focus on developing methods to clean up

Confirming Battelle's expanded support are Teresa Harten (center), EPA's ETV Program Director; Robert Fuerst, Project Officer for the AMS Center in EPA's National Exposure Research Laboratory; and Karen Riggs, the AMS Center's Program Manager.



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The AMS Center is part of the U.S. Environmental Protection Agency's Environmental Technology Verification Program. ETV was established to accelerate the development and commercialization of improved environmental technologies through third-party verification testing and reporting of the technologies' performance. The ETV process provides purchasers and permittees with an independent assessment of the technology they are buying or permitting and facilitates multi-state acceptance. For further information, contact Helen Latham at Battelle, 505 King Ave., Columbus, Ohio 43201-2693; Phone 614-424-4062; Fax 614-424-5601; E-mail lathamh@battelle.org.

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contaminated buildings (the Safe Buildings Program), protecting the nation's water supply (the Water Security Program), and improving risk assessment techniques (the Rapid Risk Assessment Program).

The AMS Center will support the NHSRC's Safe Buildings Program and the Water Security Program by identifying and conducting performance verification tests of technologies that can be used to detect and decontaminate hazardous chemical and biological materials purposefully introduced into structures or water.

Vendors interested in the upcoming tests can submit information about their technologies or obtain further information by contacting one of the following Battelle representatives:

- ♦ Water Security Monitoring Technologies: Ryan James, 614-424-7954, jamesr@battelle.org.
- ♦ Safe Buildings Detection and Monitoring Technologies: Kent Hofacre, 614-424-5639, hofacre@battelle.org; or Tom Kelly, 614-424-3495, kellyt@battelle.org.
- ♦ Safe Buildings Decontamination Technologies: Dan Janke, 614-424-5875, janked@battelle.org;

Additional Tests Underway or Planned

Ammonia continuous emission monitors (CEMs). Several vendors are expected to participate in the verification of the performance of technologies that detect ammonia "slip" emissions. Testing will take place first at a coal-fired power plant, and later at a natural gas-fired plant. The Electric Power Research Institute (EPRI) is collaborating with Battelle on the first test, which will likely be conducted in March and April. Contact Ken Cowen, 614-424-5547 or cowenk@battelle.org.

Mercury CEMs. Five mercury CEMs were tested in a Phase 2 verification test during August and September at the U.S. Department of Energy's Toxic Substances Control Act Incinerator (TSCAI) at Oak Ridge (see *The Monitor*, July-August 2002). The verification test reports are being prepared. Contact Tom Kelly, 614-424-3495 or kellyt@battelle.org.

Multi-parameter water probes. Two vendors participated in collaboration with the National Oceanic and Atmospheric Administration's (NOAA) Center

for Coastal Environmental Health and Biomolecular Research in Charleston, SC. The probes were tested in both salt and fresh water during a three-month field period. Draft reports are being reviewed. Contact Jeff Myers, 614-424-7705 or myersjd@battelle.org.

Portable arsenic water analyzers. Five portable arsenic water analyzers are expected to be tested beginning in January, in a second round of verification testing. For information about the test, contact Patricia White, 781-952-5279 or whitepj@battelle.org.

Portable multi-gas emission analyzers. One vendor's technology has completed verification testing that measured the instrument's capabilities to detect NO/NO₂, SO₂, CO, and O₂ in combustion emissions. The final report is currently being reviewed. Verification testing of additional technologies is being planned. Vendors interested in submitting technologies for the next round of verification testing should contact Jeff Myers, 614-424-7705 or myersjd@battelle.org.

or Tom Kelly, 614-424-3495, kellyt@battelle.org.

Three stakeholder committees are being organized to support the three EPA-ETV verification initiatives: Water Security Monitoring Technologies, Safe Buildings Detection and Monitoring Technologies, and

Safe Buildings Decontamination Technologies. The stakeholder committees will provide advice and guidance in selecting and prioritizing technologies; assist in identifying interested vendors; provide perspectives of regulators, technology users, and investors; and review verification test plans and test reports.